



让 LED 照亮每一个家庭

Let LED Light UP Every Home



Guangdong Huarui High-tech Materials Co.,Ltd.

地址/ADD: 中国广东省江门市蓬江区杜阮镇杜阮北三路 96 号 1 栋
Building No.1,No.96,Beisan Road,Duruan Town, Pengjiang District,
Jiangmen,Guangdong ,P.R.China
邮箱/Email: jmhrgf@vip.163.com
网址/Website: <http://www.huaruilj.com>



公司简介

Company profile

广东省华锐高新材料股份有限公司（股票代码：872545,前公司名江门市华锐铝基板股份公司），是一家致力于研发与生产 LED 专用铝基覆铜板的高新技术企业。自 2013 年成立以来，携五邑大学、华南理工大学等数家高校，合作研发新产品和新工艺，拥有一支强大的研发队伍。公司拥有物化实验室和净化车间，配备自动化设备，现有厂房 1 万平方米，员工 70 余人，月产能可达 100 万平方米以上。公司产品通过了美国 UL 认证，符合欧盟 RoHS 指令、REACH 法规、无卤素检测标准等。公司通过了 ISO9001: 2015 国际质量体系认证。

面向未来，华锐公司将依据自身优势，通过自主知识产权的智能化升级改造，以大数据为依托进行技术创新，以工匠精神集中精力做出最适合客户的产品！

Guangdong Huarui High-tech Materials Co.,Ltd. (stock code: 872545, formerly known as Jiangmen Huarui Aluminum Laminates Co., Ltd.) is a high-tech enterprise dedicated to the R&D and production of aluminum substrate copper clad laminates for LED lightings. By cooperating with Wuyi University, South China University of Technology, etc, we have formed a strong team to develop new products and technologies since established in 2013. We have a physic-chemical lab and cleanroom, well-equipped with automatic devices in the workshop. Our company occupies an area of 10 thousand square meters, employs a staff of over 70 people, and holds a monthly production capability of more than 1 million sheets. Our products have acquired UL certification, reached halogen-free testing standard, conformed to RoHS and REACH of EU, and have been aslo certified by ISO9001:2015.

Facing the future, Huarui is striving for the best to meet the requirements of all the customers by relying on its own advantages, intelligentizing its own intellectual property, and utilizing big data in its technology innovation.



Code: Z15

Aluminium Based Copper Clad Laminate

Applications:

- Commercial
- MINI LED
- Automotive
- Backlight

一般性质 GENERAL PROPERTIES

测试项目 Test Items	测试方法 Test Method	单位 Unit	典型值 Typical Value
绝缘层热导率 Thermal conductivity	ASTM D5470	W/m·K	≥1.3
热阻 Thermal resistivity	ASTM D5470	K·cm ² /w	<0.5
玻璃化温度 Tg	DMA	°C	130
最大操作温度 MOT	UL94	°C	130
热应力 Thermal stress	Solder floating 288°C	Minute	2
体积电阻 Volume resistivity	IPC-TM-650 2.5.17	M Ω .cm	10 ⁸
表面电阻 Surface resistivity	IPC-TM-650 2.5.17	M Ω	10 ⁷
介电常数 Dielectric constant	IPC-TM-650 2.5.5.3	1MHz	4.8
损耗系数 Dissipation factor	IPC-TM-650 2.5.5.3	1MHz	≤0.02
耐电弧 Arc resistance	IPC-TM-650 2.5.1	S	120
漏电电压 Hi-pot Test	IPC-TM-650 2.5.6.2	KV	AC≥3 DC≥5
剥离强度 Peel strength	IPC-TM-650 2.4.8	N/mm	≥1.05
吸水率 Moisture absorption	IPC-TM-650 2.6.2.1	%	0.6
U.L.可燃性 Flammability	UL94	Class	V-0
相对漏电起痕指数 CTI	IEC60112	V	600



Code: Z20

Aluminium Based Copper Clad Laminate

Applications:

- Commercial
- MINI LED
- Automotive
- Backlight

一般性质 GENERAL PROPERTIES

测试项目 Test Items	测试方法 Test Method	单位 Unit	典型值 Typical Value
绝缘层热导率 Thermal conductivity	ASTM D5470	W/m·K	≥1.7
热阻 Thermal resistivity	ASTM D5470	K·cm ² /w	<0.4
玻璃化温度 Tg	DMA	°C	130
最大操作温度 MOT	UL94	°C	130
热应力 Thermal stress	Solder floating 288°C	Minute	2
体积电阻 Volume resistivity	IPC-TM-650 2.5.17	M Ω .cm	10 ⁸
表面电阻 Surface resistivity	IPC-TM-650 2.5.17	M Ω	10 ⁷
介电常数 Dielectric constant	IPC-TM-650 2.5.5.3	1MHz	4.8
损耗系数 Dissipation factor	IPC-TM-650 2.5.5.3	1MHz	≤0.02
耐电弧 Arc resistance	IPC-TM-650 2.5.1	S	120
漏电电压 Hi-pot Test	IPC-TM-650 2.5.6.2	KV	AC ≥3 DC ≥5
剥离强度 Peel strength	IPC-TM-650 2.4.8	N/mm	≥1.05
吸水率 Moisture absorption	IPC-TM-650 2.6.2.1	%	0.6
U.L.可燃性 Flammability	UL94	Class	V-0
相对漏电起痕指数 CTI	IEC60112	V	600



Code: Z25

Aluminium Based Copper Clad Laminate

Applications:

- Commercial
- MINI LED
- Automotive
- Backlight

一般性质 GENERAL PROPERTIES

测试项目 Test Items	测试方法 Test Method	单位 Unit	典型值 Typical Value
绝缘层热导率 Thermal conductivity	ASTM D5470	W/m·K	≥2.2
热阻 Thermal resistivity	ASTM D5470	K·cm ² /w	<0.35
玻璃化温度 Tg	DMA	°C	130
最大操作温度 MOT	UL94	°C	130
热应力 Thermal stress	Solder floating 288°C	Minute	2
体积电阻 Volume resistivity	IPC-TM-650 2.5.17	M Ω .cm	10 ⁸
表面电阻 Surface resistivity	IPC-TM-650 2.5.17	M Ω	10 ⁷
介电常数 Dielectric constant	IPC-TM-650 2.5.5.3	1MHz	4.8
损耗系数 Dissipation factor	IPC-TM-650 2.5.5.3	1MHz	≤0.02
耐电弧 Arc resistance	IPC-TM-650 2.5.1	S	120
漏电电压 Hi-pot Test	IPC-TM-650 2.5.6.2	KV	AC≥2.5 DC≥4
剥离强度 Peel strength	IPC-TM-650 2.4.8	N/mm	≥1.05
吸水率 Moisture absorption	IPC-TM-650 2.6.2.1	%	0.6
U.L.可燃性 Flammability	UL94	Class	V-0
相对漏电起痕指数 CTI	IEC60112	V	600



Code: Z30

Aluminium Based Copper Clad Laminate

Applications:

- Commercial
- MINI LED
- Automotive
- Backlight

一般性质 GENERAL PROPERTIES

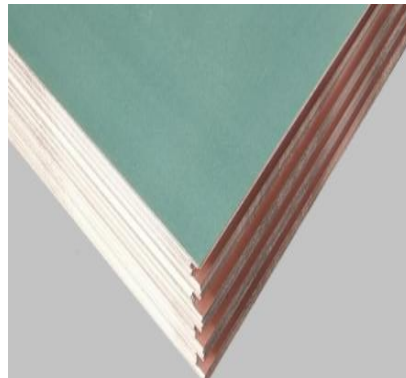
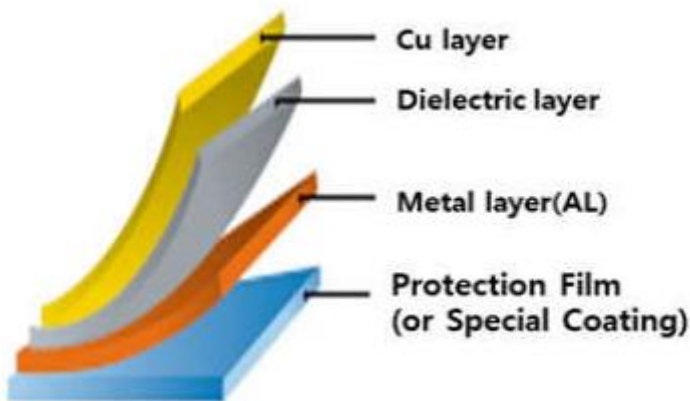
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绝缘层热导率 Thermal conductivity	ASTM D5470	W/m·K	≥2.5
热阻 Thermal resistivity	ASTM D5470	K·cm ² /w	<0.3
玻璃化温度 Tg	DMA	°C	130
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Specifications

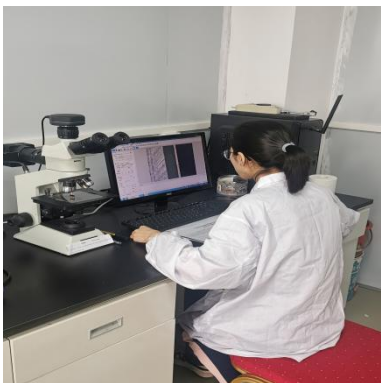
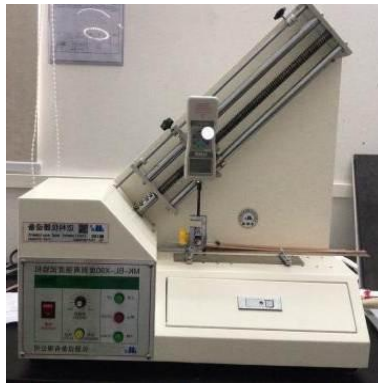
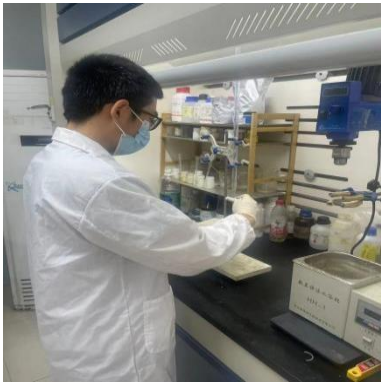
	Material	Thickness
Cu	Copper foil	0.5OZ-3OZ
Dielectric Layer	Epoxy resin filled with inorganic filler	50-200um
Aluminium Plate	1060、3003、5052 Al	0.47-3.0mm
Protective Film	PET (green) PE(blue)	40-80μm
Standard Size	1000mm× 1200mm , 1050mm×1250mm (Other sizes are available upon request)	

Product Structure



广东省华锐高新材料股份有限公司

Guangdong Huarui High-tech Materials Co.,Ltd.



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